

No.



8100019

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Coker's Pedigreed Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. ANY SEED OF THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Coker 3131'



Attest:

Samuel L. Reed
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 24th day of September in the year of our Lord one thousand nine hundred and eighty-one.

John R. Block
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Coker 73-113 &/or Coker 3113		1b. VARIETY NAME Coker 3131		FOR OFFICIAL USE ONLY PV NUMBER 8100019	
2. KIND NAME Cotton		3. GENUS AND SPECIES NAME Gossypium hirsutum		FILING DATE 11/17/80	TIME 2:30 P.M.
4. FAMILY NAME (BOTANICAL) Malvaceae		5. DATE OF DETERMINATION February, 1978		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 11/17/80 8/7/81
6. NAME OF APPLICANT(S) Coker's Pedigreed Seed Co.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 900 Darlington Highway P. O. Box 340, Hartsville, S. C. 29550		8. TELEPHONE AREA CODE AND NUMBER 803-332-8151	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION South Carolina		11. DATE OF INCORPORATION June 12, 1918
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Henry W. Webb Cotton Department Coker's Pedigreed Seed Company P. O. Box 340, Hartsville, South Carolina 29550					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ YES ☐ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
☒ FOUNDATION ☒ REGISTERED ☒ 1-Year CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

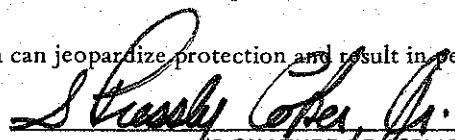
17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

November 6, 1980

(DATE)


(SIGNATURE OF APPLICANT)
S. Pressley Coker, Jr., President

(DATE)

(SIGNATURE OF APPLICANT)

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

EXHIBIT A. ORIGIN AND BREEDING HISTORY OF COTTON VARIETY - COKER 3131.

<u>Stage</u>	<u>Year</u>	<u>Breeding Procedures</u>
1	1968	Coker Cross No. 6827: Coker 310 X Coker 5114, 67-109. Coker 5114, 67-109 was a rather distinctive and unusual experimental line characterized by High Yield potential and relatively low fiber quality.
2	1968-69	Winter generation increase, Iguala, Mexico, produced F ₂ seed.
3	1969-73	Pedigree selection in the F ₃ population in 1970 and subsequent plant to row progenies, resulted in the identification of the experimental strain designated Coker 73-113 in 1973, also identified as Coker 3113 in subsequent trials.
4	1973-76	Coker 3113 evaluated in Coker's replicated trials and disease screening nurseries in S.C., Miss. and Texas. Appropriate seed increases grown on Coker farms in S.C. under supervision of Coker research and production departments. Varietal maintenance continued within this material, with all stages subjected to critical evaluation for overall performance and varietal purity.
5	1977-79	Continued beltwide evaluation to include Arizona and San Joaquin Valley, of California. A limited quantity of Breeder Seed of Coker 3113 was grown at Hartsville, S.C. in 1978 and 1979.
6	1980	Produced Foundation seed of Coker 3113 in West Texas. Concurrently all maintenance and evaluation stages continued for future production of appropriate classes of seed. The continuing examination of maintenance lines in plant to row progenies, performance trials and various stages of seed increase confirm a high degree of genetic uniformity in all generations.
7	1981	Anticipate marketing a limited quantity of Coker 3113, now formally assigned the varietal designation Coker 3131 for marketing. Variety maintenance and seed production efforts continuing.

Variants: Variants in Coker 3131 are minimal. No significant morphological variants have been observed.

EXHIBIT A.

Application of Plant Variety Protection

Coker 3131 Cotton Variety

Coker's Pedigreed Seed Company

November 6, 1980

Supplement to Exhibit "A" Cotton Variety, Coker 3131

Subject: Varietal Stability

Coker 3131 has exhibited a high degree of genetic stability during years of performance evaluation, seed increase and progeny selection.

During these stages we have not observed significant variants. This variety has met all purity and uniformity requirements of our Production Dept. as well as those of the S.C. and Texas Seed Certification agencies.

A handwritten signature in dark ink, appearing to read "D. W. Smith", is located in the lower right quadrant of the page.

13 B. EXHIBIT B, NOVELTY STATEMENT OF COTTON VARIETY - COKER 3131

Novelty of Coker 3131, is based on the following unique character(s):

Coker 3131 most closely resembles Coker 310 except that it is characterized by a significant reduction in fiber length and fiber strength, and an increase in gin turnout or lint percentage.

See Attached Data.

Exhibit B
Application for Plant Variety Protection
Coker 3131 Cotton Variety
Coker's Pedigreed Seed Company
November 6, 1980

COKER'S PEDIGREED SEED COMPANY
HARTSVILLE, S.C.
COTTON DIVISION

SUPPLEMENT TO EXHIBIT B
NOVELTY, COTTON VARIETY,
COKER 3131

LINT YIELDS AND GIN TURNOUT, 2 COKER COTTONS, LUBBOCK, TX. 1975-1979
(Performance Trails conducted by Coker's Pedigreed Seed Co.)

VARIETY	Lint Yields: lbs/A					Gin 1/ Turnout %
	1975	1976	1977	1978	1979 Average	
Coker 310	460	639	770	635	437	588
Coker 3131	559	767	973	733	529	712
						24.1
						25.1

1/ Gin Turnout determined from Stripper harvesting.

Tests conducted at two Lubbock locations each year.

COMPARISONS OF NOVELTY TRAITS : COKER 310 AND COKER 3131

II. Mississippi Data

A. Gin Turnout - %

Variety	1975		1977		1978		1979		Average 8 Tests
	A	B	A	B	A	B	A	B	
Coker 310	38.8	40.6	36.1	35.8	35.7	36.0	34.7	35.1	36.6
Coker 3131	38.6	40.0	37.8	37.5	36.6	37.2	37.1	36.6	37.7
L.S.D. .05									0.76
.01									1.06
C.V. %									1.9%

B. Fibrograph; 2.5% Span Length - Ins.

Variety	1975		1977		1978		1979		Average 7 Tests
	A	B	A	B	A	B	A	B	
Coker 310	1.20	1.21	1.26	1.25	--	1.19	1.22	1.21	1.22
Coker 3131	1.12	1.13	1.18	1.15	--	1.11	1.15	1.17	1.14
L.S.D. .05									0.015
.01									0.021
C.V. %									1.1%

C. Stelometer : Grams per Tex.

Variety	1975		1977		1978		1979		Average 6 Tests
	A	B	A	B	A	B	A	B	
Coker 310	23.5	24.3	24.0	--	--	26.0	24.6	25.8	24.7
Coker 3131	21.5	22.9	23.2	--	--	23.6	23.1	23.3	22.9
L.S.D. .05									0.59
.01									0.83
C.V. %									1.9%

Tests identified as "A" & "B" indicate specific varietal groups at indicated region and year. Actually each letter A or B represents 2-3 replicated individual trials. Thus the 8Test average may represent up to 24 replicated tests. Note data for several MS. tests are missing.

COKER'S PEDIGREED SEED COMPANY

SUPPLEMENT TO EXHIBIT B
NOVELTY, COTTON VARIETY
COKER 3131

COMPARISONS OF NOVELTY TRAITS : COKER 310 AND COKER 3131

I. South Carolina Data

A. Gin Turnout - %

Variety	1975		1976		1978		1979		Average 8 Tests
	A	B	A	B	A	B	A	B	
Coker 310	40.5	39.5	37.4	37.4	38.8	38.7	37.5	37.5	38.4
Coker 3131	40.8	40.3	38.5	38.4	41.9	41.2	38.6	39.3	39.9
L.S.D. .05									0.71
.01									0.98
C.V. %									1.7%

B. Fibrograph; 2.5% Span Length - Ins.

Variety	1975		1976		1978		1979		Average 8 Tests
	A	B	A	B	A	B	A	B	
Coker 310	1.18	1.16	1.22	1.24	1.22	1.19	1.18	1.18	1.20
Coker 3131	1.10	1.09	1.16	1.17	1.13	1.13	1.13	1.13	1.13
L.S.D. .05									0.011
.01									0.015
C.V. %									0.86%

C. Stelometer; Grams per Tex.

Variety	1975		1976		1978		1979		Average 8 Tests
	A	B	A	B	A	B	A	B	
Coker 310	22.70	23.65	24.95	24.05	25.40	24.90	23.50	25.70	24.36
Coker 3131	21.80	22.00	22.90	21.75	21.50	23.50	22.30	22.70	22.31
L.S.D. .05									0.75
.01									1.04
C.V. %									3.0%

Tests identified as "A" & "B" indicate specific varietal groups at indicated region and year. Actually each letter A or B represents 2-3 replicated individual trials. Thus the 8 Test average may represent up to 24 replicated tests.

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (GOSSYPIMUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Coker's Pedigreed Seed Company

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 340

Hartsville, South Carolina 29550

FOR OFFICIAL USE ONLY

PVPO NUMBER

8100019

VARIETY NAME OR TEMPORARY
DESIGNATION

Coker 3131

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. SPECIES:

 1 = GOSSYPIMUM HIRSUTUM 2 = GOSSYPIMUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adopted, 2 = Adopted):

 EASTERN DELTA CENTRAL HIGH PLAINS EL PASO AREA
 WESTERN LOW HOT VALLEYS SAN JOAQUIN OTHER (Specify) _____

3. MATURITY (50% Open Boll):

<input type="text" value="0"/> <input type="text" value="0"/>	NO. OF DAYS EARLIER THAN	<input type="text" value="1"/>	}	1 = COKER 310	2 = DELTAPINE 16	3 = STONEVILLE 213
<input type="text" value="0"/> <input type="text" value="2"/>	Not Significant	<input type="text" value="1"/>		4 = PAYMASTER 111	5 = ACALA 1517-70	6 = ACALA SJ-1
<input type="text" value="0"/> <input type="text" value="2"/>	NO. OF DAYS LATER THAN	<input type="text" value="1"/>		7 = LANKART 57	8 = OTHER (Specify) _____	

4. PLANT HABIT:

 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT 1 = FOLIAGE SPARSE 2 = DENSE
3 = OTHER (Specify) Intermediate

5. PLANT HEIGHT:

<input type="text" value="0"/> <input type="text" value="0"/>	CM. SHORTER THAN	<input type="text" value="1"/>	}	1 = COKER 310	2 = DELTAPINE 16	3 = STONEVILLE 213
<input type="text" value="0"/> <input type="text" value="0"/>	Not Significant	<input type="text" value="1"/>		4 = PAYMASTER 111	5 = ACALA 1517-70	6 = ACALA SJ-1
<input type="text" value="0"/> <input type="text" value="0"/>	CM. TALLER THAN	<input type="text" value="1"/>		7 = LANKART 57	8 = OTHER (Specify) _____	

6. MAIN STEM:

 1 = LAX 2 = ASCENDING 3 = ERECT CM. TO FIRST FRUITING BRANCH NO. OF NODES TO FIRST FRUITING BRANCH
(from cotyledonary node)

7. LEAF:

 CM. WIDTH OF
WIDEST LEAVES
AT MATURITY

8. LEAF PUBESCENCE:

 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H₁ OR H₂) 5 = OTHER (Specify) _____

9. LEAF COLOR:

 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (Acala-442) 4 = RED
5 = OTHER (Specify) _____

10. LEAF TYPE:

 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (Specify) _____

11. FLOWER:

 1 = NECTARILESS 2 = NECTARIED Petals: 1 = CREAM 2 = YELLOW Pollen: 1 = CREAM 2 = YELLOW 3 = Mixed

12. FRUITING BRANCH TYPE:

 1 = CLUSTER 2 = SHORT 3 = NORMAL 1 = DETERMINATE 2 = INDETERMINATE 3 = Intermediate

13. GOSSYPOL CONDITION:

 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS 1 = NORMAL BUD GOSSYPOL
4 = OTHER (Specify) _____ 2 = HIGH BUD GOSSYPOL

14. SEEDS:

 ± SEED INDEX (Fuzzy seed basis) Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify) _____

FORM GR-470-8 (REVERSE)

15. BOLLS:

<input type="text" value="2"/> Locules:	1 = 3-4 2 = 4-5	<input type="text" value="-"/> <input type="text" value="-"/> NO. SEEDS PER BOLL	<input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value="0"/> LINT PERCENT	<input type="text" value="3"/> <input type="text" value="8"/> MM. DIAMETER
<input type="text" value="1"/> Pitted:	1 = NONE 2 = FINELY 3 = COARSELY	<input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="5"/> GRAMS SEED COTTON PER BOLL	<input type="text" value="2"/> Breadth: 1 = BROADER AT BASE 2 = BROADER AT MIDDLE	
<input type="text" value="3"/> Type:	1 = STORMPROOF (WESTBURN 70) 2 = STORM RESISTANT (LANKART 57) 3 = OPEN (DELTAPINE 16)	<input type="text" value="3"/> Shape:	1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH	

0861 2 T AOW

16. BRACTEOLAS:

<input type="text" value="3"/> Breadth:	1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH
<input type="text" value="1"/> Teeth:	1 = FINE 2 = COURSE
<input type="text" value="3"/> Teeth:	1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER (Specify) _____

17. YIELD: Compared to—

<input type="text" value="-"/> <input type="text" value="-"/> <input type="text" value="-"/> PERCENT LESS THAN	<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="3"/> } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="0"/> PERCENT MORE THAN	<input type="text" value="1"/> } 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

<input type="text" value="0"/> <input type="text" value="5"/> <input type="text" value="3"/> SPAN LENGTH 50%	<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="3"/> SPAN LENGTH 2.5%	<input type="text" value="-"/> <input type="text" value="-"/> <input type="text" value="-"/> U.H.M. LENGTH
<input type="text" value="-"/> <input type="text" value="-"/> <input type="text" value="-"/> MEAN*LENGTH	<input type="text" value="3"/> <input type="text" value="4"/> STAPLE LENGTH 32nd INCHES	
<input type="text" value="-"/> <input type="text" value="-"/> UNIFORMITY RATIO (MEAN/U.H.M.)	<input type="text" value="4"/> <input type="text" value="7"/> UNIFORMITY INDEX (50% SPAN/2.5% SPAN)	

19. FIBER STRENGTH AND ELONGATION:

<input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="9"/> 1,000 P.S.I.	<input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="9"/> ELONGATION E ₁	<input type="text" value="-"/> <input type="text" value="-"/> <input type="text" value="-"/> STILOMETER T ₀
<input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="1"/> MICRONAIRE READING	<input type="text" value="-"/> <input type="text" value="-"/> <input type="text" value="-"/> YARN STRENGTH (Give test method)	<input type="text" value="2"/> <input type="text" value="2"/> <input type="text" value="3"/> STILOMETER T ₁

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Tolerant

<input type="text" value="3"/> VERTICILLIUM WILT	<input type="text" value="3"/> FUSARIUM WILT	<input type="text" value="3"/> ROOT KNOT NEMATODE	<input type="text" value="1"/> BACTERIAL BLIGHT (Race 1)
<input type="text" value="1"/> BACTERIAL BLIGHT (Race 2)	<input type="text" value="0"/> ASCOCHYTA BLIGHT	<input type="text" value="0"/> PHYMATOTRICHUM ROOT ROT	<input type="text" value="0"/> RHIZOCTONIA
<input type="text" value="0"/> ANTHRACNOSE	<input type="text" value="0"/> RUST	<input type="text" value=""/> OTHER (Specify) _____	

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="text" value="1"/> BOLL WEEVIL	<input type="text" value="1"/> APHID	<input type="text" value="1"/> FLEAHOPPER	<input type="text" value="1"/> LEAFWORM
<input type="text" value="1"/> FALL ARMYWORM	<input type="text" value="0"/> GRASSHOPPER	<input type="text" value="1"/> LYGUS	<input type="text" value="1"/> PINK BOLLWORM
<input type="text" value="0"/> STINKBUG	<input type="text" value="1"/> THRIP	<input type="text" value="1"/> CUTWORM	<input type="text" value="1"/> SPIDERMITTE
<input type="text" value=""/> OTHER (Specify) _____			

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

8100019

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:


WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").

IN WITNESS WHEREOF, Coker's has caused this instrument to be executed by its duly authorized representative as of the 20th day of July, 1988.

By: E. Joe Dahmer
E. Joe Dahmer
President

On this 26th day of July, 1988, before me, a Notary Public in and for the County aforesaid, the undersigned officer, E. Joe Dahmer, personally appeared and acknowledged himself to be the President of Coker's Pedigreed Seed Co., and that he executed the foregoing instrument for the purposes therein.

 **TIMOTHY M. BANGASSER**
NOTARY PUBLIC — MINNESOTA
HENNEPIN COUNTY
My Commission Expires May 22, 1992

Timothy M. Bagnasser
Notary Public

Cotton Varieties, Continued

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate Number</u>	<u>Issue Date</u>	<u>Term (Yrs.)</u>
Coker 3131	8100019	Sept. 24, 1981	18
Coker 208	8300082	Sept. 29, 1983	18
Coker 139	8700070	Dec. 18, 1987	18

Soft Red Winter Wheat Varieties

Coker 68-15	7200014	Mar. 6, 1974	17
Coker 68-19	7200015	Mar. 6, 1975	17
Coker 747	76TQ015	Sept. 20, 1978	17
Coker 762	8000152	Dec. 10, 1981	18
Coker 797	8000145	Dec. 10, 1981	18
Coker 916	8300036	Sept. 27, 1985	18
Coker 983	8400058	Dec. 31, 1980	18
McNair 701	7200038	Feb. 26, 1974	17
McNair 4823	7200037	Apr. 8, 1975	17
RHS 8232	8400136	Oct. 31, 1985	18
9227	8600009	May 31, 1988	18
9323	8600010	Apr. 29, 1988	18
McNair 1813	7500006	May 1, 1975	17
McNair 1003	7700084	Aug. 10, 1978	17
Coker 833	8800005(1)	Oct. 2, 1987(1)	-
Coker 9733	8700159(1)	July 16, 1987(1)	-
Coker 9766	8700160(1)	July 17, 1987(1)	-

(1) Application number and filing date.

8100019

**ASSIGNMENT OF FOREIGN AND DOMESTIC PATENTS AND
PLANT VARIETY REGISTRATIONS AND PROTECTION CERTIFICATES**

WHEREAS, NORTHRUP KING CO., a Delaware corporation, doing business at 7500 Olson Memorial Highway, Golden Valley, Minnesota 55427 ("ASSIGNOR"), owns, is licensed to or otherwise has the right to use the cotton seed lines listed in Schedule 1.2 hereto (the "Varieties") and in the germplasm related to the Varieties and in other cotton seed strains and germplasm in the United States and abroad (the "Germplasm") for which patents, plant variety protection certificates, breeder's rights certificates, seed registrations, seed certifications (collectively, the "Applications") have been filed in the United States and abroad.

AND WHEREAS, STONEVILLE PEDIGREED SEED COMPANY, a Mississippi corporation doing business at Old Leland Road, Stoneville, Mississippi 38776 ("ASSIGNEE") desires to acquire the entire right, title and interest in and to the Varieties and the Germplasm and the said Applications:

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, does hereby acknowledge that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said Applications, and the said Applications and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which have been and may hereafter be filed for the Varieties or the Germplasm in any country or countries foreign to the United States, and all Letters Patent which may be granted for the Varieties or the Germplasm in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, such official of the United States whose duty it is to issue plant variety protection certificates, and any Official of any country or countries foreign to the United States whose duty it is to issue patents, plant variety protection certificates, breeder's rights certificates, seed registrations and seed certifications to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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(C1)

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AND ASSIGNOR HEREBY covenants and agrees that ASSIGNOR will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Varieties and the Germplasm and said Applications, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said Varieties and Germplasm in all countries.

IN TESTIMONY WHEREOF, ASSIGNOR hereunto sets its hand and seal this 30th day of May, 1990.

NORTHROP KING CO.,
a Delaware corporation

(corporate seal)

By: 

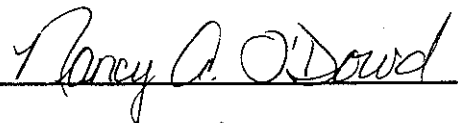
Title: President + CEO

State of Minnesota
County of Hennepin

)
) ss.
)

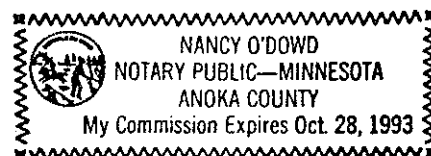
On this 30th day of May, in the year 1990, before me, the undersigned, a Notary Public for the State of Minnesota, personally appeared to me Kent Schulze, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within instrument as President + CEO of Northrup King Co. and acknowledged to me that he executed it as a free act on behalf of Northrup King Co. with authority to do so.

(Notarial Seal)


Notary Public

My Commission Expires:

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(C1)
05/21/90



SCHEDULE 1.2**Cotton Varieties**

<u>Variety Name</u>	<u>U. S. Plant Variety Certificate Number</u>	<u>Issue Date</u>
Coker 130	Applied for	
Coker 139	8700070	12/18/87
Coker 208	8300082	09/29/83
Coker 304	7700024	12/21/78
Coker 308	None	
Coker 310	7100021	01/18/74
Coker 315	8000087	12/18/80
Coker 320	Applied for	
Coker 420	7900087	01/29/80
Coker 3131	8100019	09/24/81
Exp. 84-828	None	
Exp. 610-8907	None	
KC-311	Applied for	
KC-380	8700069	06/30/87
McNair 210	7100090	06/24/74
McNair 220	7600077	07/19/77
McNair 235	None	
McNair 511	7200095	05/21/74
McNair 612	7400023	03/06/74

**ASSIGNMENT OF FOREIGN AND DOMESTIC PATENTS AND
PLANT VARIETY REGISTRATIONS AND PROTECTION CERTIFICATES**

WHEREAS, SANDOZ LTD., ("ASSIGNOR"), is the owner of all right, title and interest in the cotton seed lines listed in Schedule 1.2 hereto (the "Varieties") and in the germplasm related to the Varieties and in other cotton seed strains and germplasm which it has licensed to or otherwise given Northrup King Co., its wholly owned subsidiary, the right to use in the United States and abroad (the "Germplasm") for which patents, breeder's rights certificates, seed registrations, seed certifications (collectively, the "Applications") have been filed in the United States and abroad.

AND WHEREAS, STONEVILLE PEDIGREED SEED COMPANY, a Mississippi corporation doing business at Old Leland Road, Stoneville, Mississippi 38776 ("ASSIGNEE") desires to acquire the entire right, title and interest in and to the Varieties and the Germplasm and the said Applications:

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, does hereby acknowledge that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said Applications, and the said Applications and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which have been and may hereafter be filed for the Varieties or the Germplasm in any country or countries foreign to the United States, and all Letters Patent which may be granted for the Varieties or the Germplasm in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents, plant variety protection certificates, breeder's rights certificates, seed registrations and seed certifications to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that ASSIGNOR will communicate to the said ASSIGNEE, its successors, legal representa-

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05/13/90

tives and assigns, any facts known to ASSIGNOR respecting the Varieties and the Germplasm and said Applications, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said Varieties and Germplasm in all countries.

IN TESTIMONY WHEREOF, ASSIGNOR hereunto sets its hand and seal this 30th day of May, 1990.

SANDOZ LTD.

(corporate seal)

By: Edward C. Resler
Title: ATTORNEY IN FACT UNDER POWER OF ATTORNEY DATED MAY 30, 1990

State of Minnesota

)
) ss.
)

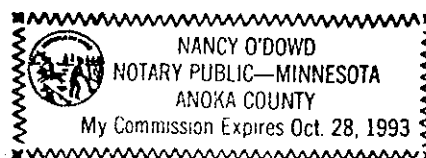
County of Hennepin

On this 30th day of May, in the year 1990, before me, the undersigned, a Notary Public for the State of Minnesota, personally appeared to me Edward C. Resler, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within instrument as the duly authorized agent of Sandoz Ltd. and acknowledged to me that he executed it as a free act on behalf of Sandoz Ltd. with authority to do so.

(Notarial Seal)

Nancy A. O'Dowd
Notary Public

My Commission Expires:



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(C1)
05/21/90

SCHEDULE 1.2**Cotton Varieties**

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